ATTENTION: TECHNICAL DEVELOPMENT BOARD MEMBERS

THE INFORMATION CONTAINED IN THE ATTACHED PAPERS IS NOT TO BE RELEASED OR REVEALED TO ANY CONTRACTOR UNTIL AFTER THE CONTRACT INVOLVED HAS BEEN LET BY THE OFFICE OF LOGISTICS. IT IS ESPECIALLY IMPORTANT THAT THE IDENTITY OF THE SUCCESSFUL CONTRACTOR NOT BE DIVULGED IN ANY WAY WHICH COULD LEAD TO ITS BECOMING KNOWN BY OTHER CONTRACTORS OR POTENTIAL CONTRACTORS.

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NPIC/TDB-A-9/66

26 January 1966

TECHNICAL DEVELOPMENT BOARD

AGENDA

Time: 0900 hours, 2 February 1966 Place: 4N412

1. Announcements

a. Approval of Minutes

The minutes of the last TDB meeting were noted and recommended items approved by the Assistant for Administration for the Executive Director on 24 January 1966. In addition, they were reviewed by the Director, NPIC, who concurred in the recommendations.

b. Proposals (See Attachment A to the Agenda)

c. Interim Action

(1) Overrun on the P.I. Performance and Techniques Study for FY-64 in the amount of [redacted] This action was taken because the overrun costs were less than twenty per cent of the original contract price. The total contract price is now [redacted] 25X1 25X1

(2) Overrun on Contract [redacted] Task Order #3, Panoramic Stereo Viewer Prototype, [redacted] for FY-62 in the amount of [redacted] This increases the total amount of the contract for FY-62 [redacted] 25X1 25X1 25X1 25X1

2. New Business 25X1

a. Plotter Marking System, [redacted] 25X1
b. Fibre-Optic Viewer Modification, [redacted]
c. Automatic Target Recognition Program, [redacted]

25X1

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Attachment A

NPIC/TDB-A-9/66

26 January 1966

1. b. Proposals

(1) New Proposals

58/66 Advanced Rear Projection Viewer, [redacted] 25X1
25X1 [redacted]

59/66 Image Comparison Microstereoscope Viewer, [redacted] 25X1
[redacted] 25X1

60/66 Automatic Target Recognition Program, [redacted] 25X1
[redacted] 25X1

61/66 Automatic Target Recognition Program, [redacted] 25X1
[redacted] 25X1

62/66 Rear Projection Viewer [redacted]

63/66 Automatic Target Recognition Program, [redacted] 25X1
[redacted] 25X1

64/66 Automatic Target Recognition System, [redacted] 25X1
[redacted] 25X1

65/66 Automatic Target Recognition System, [redacted]
25X1 [redacted]

66/66 Image Comparison Microstereoscope, [redacted] 25X1
25X1 [redacted]

67/66 Automatic Photo Interpretation System, [redacted] 25X1
25X1 [redacted]

68/66 Automatic Tracking Recognition System, [redacted] 25X1
25X1 [redacted]

69/66 Automatic Target Recognition System, [redacted] 25X1

70/66 Automatic Target Recognition System, [redacted] 25X1
25X1 [redacted]

71/66 Automatic Target Recognition System, [redacted] 25X1
25X1 [redacted]

Attachment A

NPIC/TDB-A-9/66 (Continued)

26 January 1966

1. b. Proposals

(1) New Proposals (Continued)

10 72/66 Automatic Target Recognition Program, [redacted] 25X1
[redacted] 25X1

11 73/66 Automatic Target Recognition Program, [redacted] 25X1
25X1 [redacted]

74/66 Advanced Rear Projection Viewer, [redacted] 25X1
25X1 [redacted]

75/66 Rear Projection Viewer, [redacted] 25X1
25X1 [redacted] 25X1

76/66 Advanced Rear Projection Viewer, [redacted]
25X1 [redacted]

82/66 Unconventional Imagery Systems, [redacted] 25X1

85/66 Image Comparison Microstereoscope, [redacted] 25X1
25X1 [redacted]

17 86/66 Automatic Target Recognition System [redacted] 25X1
[redacted] 25X1

15 87/66 Automatic Target Recognition Program, [redacted] 25X1
[redacted] 25X1

16 88/66 Automatic Target Recognition Program, [redacted] 25X1
25X1 [redacted]

89/66 Analysis, Study: Image Exploitation Module -
[redacted] 25X1

90/66 Imagery Exploitation Module Study, [redacted] 25X1
[redacted] 25X1

91/66 Imagery Exploitation Module Study, [redacted] 25X1
25X1 [redacted]

92/66 Pen System Study for Plotter, [redacted] 25X1
25X1 [redacted]

Attachment A

NPIC/TDB-A-9/66 (Continued)

26 January 1966

1. b. Proposals

(1) New Proposals (Continued)

93/66 Advanced Rear Projection Viewer, [redacted] 25X1 25X1

94/66 Unconventional Imagery Exploitation Program [redacted] 25X1

25X1 [redacted]

95/66 Unconventional Imagery Exploitation Systems, [redacted] 25X1 25X1

[redacted]

96/66 Unconventional Imagery Exploitation, [redacted] 25X1 25X1

[redacted]

97/66 Unconventional Imagery Exploration Program, [redacted] 25X1 25X1

[redacted]

98/66 Unconventional Imagery Problem, [redacted] 25X1

99/66 Unconventional Imagery Exploration System, [redacted] 25X1 25X1

[redacted]

100/66 Unconventional Imagery System, [redacted] 25X1

25X1 [redacted]

101/66 Imagery Exploration Module Concept Study, [redacted] 25X1 25X1

[redacted]

102/66 Imagery Exploration Module Study, [redacted] 25X1 25X1

[redacted]

103/66 Imagery Exploration Module Study, [redacted] 25X1

25X1 [redacted]

104/66 Unconventional Imagery Exploration, [redacted] 25X1

25X1 [redacted]

105/66 Unconventional Imagery Systems, [redacted] 25X1 25X1

25X1 [redacted]

106/66 Unconventional Imagery Systems, [redacted]

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Attachment A

NPIC/TDB-A-9/66

26 January 1966

1. b. Proposals

(2) Rejected Proposals

30/65 Training & Service of Equipment identified by [redacted] 25X1
Project 405A-102

93/65 Parametric Study of Image Intensifier Night Aerial Reconnaissance System, Ref: Proposal AD-12 - [redacted] 25X1

97/65 Investigate the Enhancement of Photographic Images by Viewing Images in Rapid Succession, [redacted] 25X1

100/65 Technical Study of Imagery Reconstructed from Electronic Data- [redacted] 25X1

101/65 Use of Lasers in Enlargers which include Automatic Dodging - [redacted] 25X1

117/65 Study Program for the Improvement of Imagery in Rear Projection Viewers, [redacted] 25X1

145/66 A Proposed Study of Human Visual Integration, [redacted] 25X1 25X1

146/65 Human Visual Integration Study, [redacted] 25X1

164/65 Proposal for Image Quality Meter, [redacted] 25X1 25X1

165/65 Laser Display Experimental Program, [redacted] 25X1 25X1

169/65 Film Marking Study, [redacted] 25X1

177/65 Variable Resolution Transmitter & Receiver Stations, [redacted] 25X1

22/66 Human Factor Problems in Image Interpretation, [redacted] 25X1 25X1

31/66 Proposal for Photographic Paper Surface Application Processor [redacted] Company cancelled proposal 25X1

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Attachment A

NPIC/TDB-A-9/66 (Continued)

26 January 1966

1. b. Proposals

(2) Rejected Proposals (Continued)

41/66 Human Factors Research Program, [redacted] 25X1

25X1 [redacted]

42/66 Human Factors Research Program, [redacted] 25X1

54/66 Image Analysis Research Program, [redacted] 25X1

77/66 Automatic Stereo Projector, [redacted] 25X1

79/66 Automatic Stereo Systems, [redacted] 25X1

80/66 Automatic Stereo Scanner, [redacted] 25X1

81/66 Automatic Stereo Scanning Systems, [redacted] 25X1

25X1 [redacted]

83/66 Automatic Stereo Scanning System, [redacted] 25X1

25X1 [redacted]

84/66 Automatic Stereo Scanning Program, [redacted] 25X1

R & D CATALOG FORM

DATE: 28 December 1965

1. PROJECT TITLE/CODE NAME
Plotter Marking System

2. SHORT PROJECT DESCRIPTION
Improved marking system for the High-speed Precision Coordinatograph.

25X1 [redacted]

4. LOCATION OF CONTRACTOR

5. CLASS OF CONTRACTOR
Manufacturer

6. TYPE OF CONTRACT
Time and Materials

7. FUNDS
FY 19 $

25X1 FY 1966 $ [redacted]

FY 19 $

8. REQUISITION NO.

9. BUDGET PROJECT NO.
NP-IO-11

10. EFFECTIVE CONTRACT DATE (Begin - end)
January 1966 - April 1966

11. SECURITY CLASS.
AA-Confidential
T-Unclassified
W-Unclassified

12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION

25X1 DDI/NPIC/P&DS [redacted]

13. REQUIREMENT/AUTHORITY
The High-speed Precision Coordinatograph manufactured by [redacted] under 25X1
25X1 Contract [redacted] and installed at NPIC in July 1965 requires a more positive marking system than that supplied with the instrument.

14. TYPE OF WORK TO BE DONE
Study effort.

15. CATEGORIES OF EFFORT

MAJOR CATEGORY	SUB-CATEGORIES
Immediate Operational Modifications	Marking Systems
	Pens
	Inks
	Electrographic

16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC.
A report on the best marking system applicable to the existing instrument and meeting NPIC requirements together with design recommendations.

25X1

17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION
Coordination has been effected with IPD and PD. Contract [redacted]
25X1 [redacted] provided the High-speed Precision Coordinatograph.

18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required)
The existing marking system on the High-speed Precision Coordinatograph (plotter) is operationally unsatisfactory. The ink currently in use is a slow drying type such as used in oscillograph recorders. This type is necessary to allow free-flowing, non-clogging operation. However, the drying properties make the plot unusable for immediate handling. In addition, the free-flow characteristics of the ink causes frequent spattering in the dotting and lettering modes. The pen now in use is an [redacted] plotter. 25X1
(Cont'd)

19. APPROVED BY AND DATE

OFFICE	DEPUTY DIRECTOR	DDCI

FORM 11-64 2338 SECRET GROUP 1 Excluded from automatic downgrading and declassification (1-13)

18. Continued...

pen with a modified ink supply which allows a long plotting period.

The original plotter contract was fixed price at a cost o[redacted] with a twelve month delivery schedule. Instead, delivery was made eighteen months after contract and cost the contractor approximately[redacted] additional. In view of the delayed delivery, the additional costs incurred, internal pressure for use and lack of available manpower, it was decided to ship, install and test the plotter without an extended evaluation at the contractor's facility. The marking system, at the time of installation, performed satisfactorily and acceptance of the plotter was made. However, since that time, it has become evident that constant cleaning and manipulation of the marking system is necessary to keep it operational. If this could be performed on a routine basis (daily or oftener if required) the system would operate more satisfactorily. However, this would not solve the slow drying problem which restricts the intended use of the plotter.

25X1 25X1 25X1

25X1 [redacted], proposes to study all existing marking systems. They will then select and purchase components of those systems most applicable to the coordinatograph as it will be used by NPIC, breadboard the systems, evaluate the results, and select and report on the most promising system.

The effort is planned as a four month program and will be either a fixed price or time and materials contract. It is estimated to require approximately two man-months of senior engineering effort and approximately one man-month each of drafting, technician and machinist effort plus about [redacted] of purchased materials.

25X1